THE RAMTOP

JANUARY 1987

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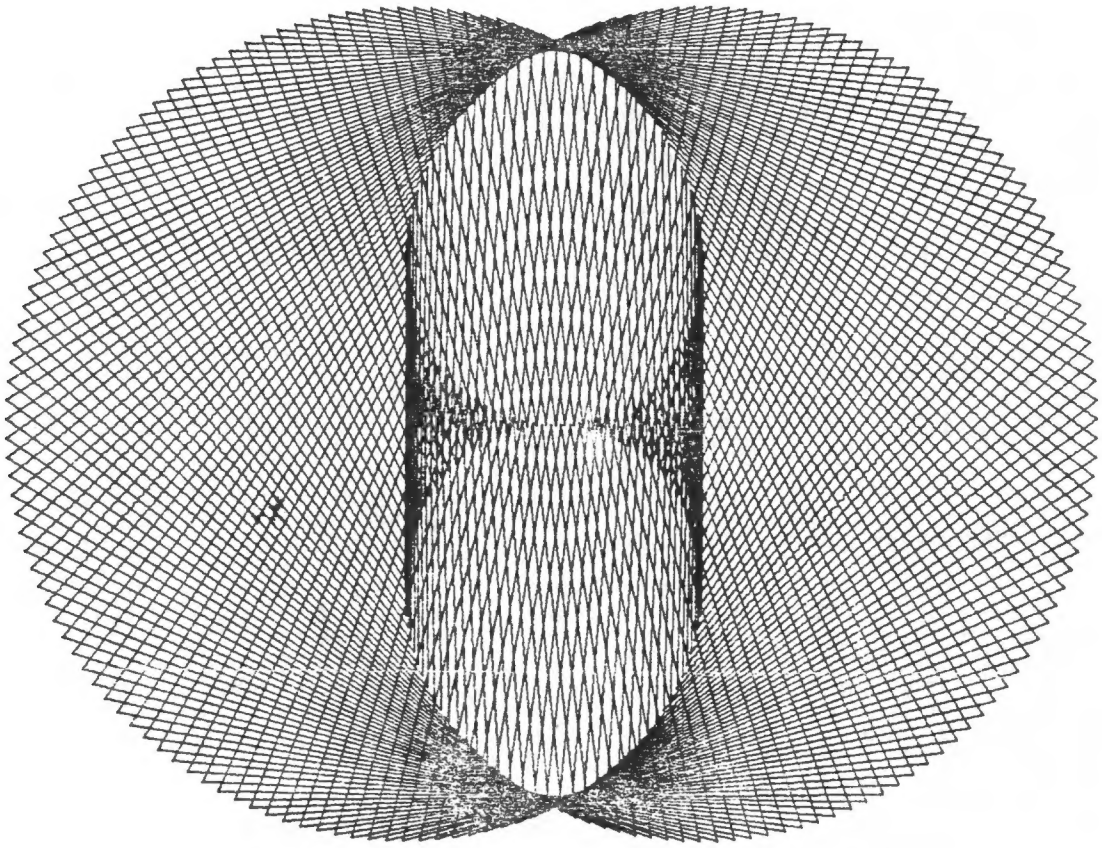
GREATER CLEVELAND SINCLAIR USERS GROUP



Thanks TED, for the time I know that it take you to put these front covers. Without them, our newsletter would be dreary!

WEST SIDE GROUP MEETS AT LAKEWOOD PUBLIC LIBRARY
15425 DETROIT AVE. LAKEWOOD OHIO 7:00 P.M.
EVERY THIRD FRIDAY EACH MONTH
CONTACT: DICK SIEG (216) 433-4387

EAST SIDE GROUP MEETS AT THE EUCLID SQUARE MALL
IN THE EUCLIDIAN ROOM 7:30 P.M.
EVERY FIRST FRIDAY EACH MONTH
CONTACT: MAX SCHOENFELD (216) 371-1096

Please note that we will be having a special guest at the FEBRUARY EAST SIDE meeting! See the T/S Resources column on page 2 for more details!

A short note to our friends from other newsletters and magazines. You are welcome to use any of our material, news, adds, or programs if YOU: (1) Tell where it came from (RAMTOP Cleveland, Ohio) and (2) The author's name that wrote the article. We would appreciate it if you would send us a copy of the newsletter that it appeared in! Unless otherwise notified we will do the same.

THANK YOU FOR YOUR INTEREST IN OUR NEWSLETTER !

THE TSU-BBS IS ALIVE

SYSOP:Chris Raynak PHONE:216-327-1099 PARAMETERS:7/1/0

FREE NET SPEEDS UP!

The Free Net operating system has now been improved so that there are few time lags in system response. All of the Users and Sysops are looking forword to the many additions and improvements that are planned for the system in 1987. For a complete description read the "year end report" in the Whats New section of off the main menu

CLEVELAND FREE NET - 368-3888

Be sure to visit our T/S SIG in the Computer Corner of the Public Square Section. When you do - please register as a SIG member, item #7 on the SIG menu.

1987 TIMEX/SINCLAIR COMPUTERFEST

Mark your calendar, and save your money, the 1987 (second annual) Midwest T/S Computerfest will be on May 2nd and 3rd, at the Holiday Inn North, Indianapolis, Indiana. Featured will be presentations, demos, exhibits, and sales by vendors and users groups from throughout the USA. All who attended the '86 Fest had a super time. A larger crowd is expected this year. Complete details and a registration form will be in the Feb. issue of the RAMTOP. There are plenty of accomidations in all price ranges near the Fest hotel. Our Club will once again have a table in the exhibition hall.

FEB 6th Meeting Guest.

Visiting us at the east side Feb. 6th meeting will be Jeffrey Moore, editor of Syncware News. Syncware News is a national bi-monthly journal for technical applications of T/S computers. This highly acclaimed publication is now in its fourth year, which sort of sets a record for USA T/S magazines. Jeff will give us a national perspective of the T/S community and perhaps demo some products that he has received for review.

Thanks ANDY! Your news is not only very informative, but also easy to read and VERY current! Let's hope there is lots more this year!

THANKS!!!!!!!!

As we start a new year it is appropriate to acknowledge the many members who have contributed many hours of their time to make our user group a very successful organization.

To all who have contributed articles to the the RAMTOP, plus the editing, graphics, printing, and mailing; the bookeeping, the treasury, refreshments, meeting arrangements, programs, hardware and software demonstrations our thanks. Also to the SYSOP of the TSU-BBS, our FREE-NET Sysops, the library tape comittee, and the many individuals who represented our club at computer events, a big thank you.
If you are a member of the team described above, you can be proud of a job well done....

There are very few Computer User Groups that have 23 meetings a year, publish a monthly 8 page newsletter, have a club library, and have SIGS on two BBS's.
THANKS TO ALL!!!!!!!!!!!

CLUB LIBRARY TAPE.....

Distribution of our first library tape for the 2068 started in November. Copies have been mailed to out of town members. The multi-tape recorder duplicater box was succesfull in its first use at the December meeting, and will be at the Jan. and Feb. west side meetings. To obtain a copy of the library tape, bring your cassette recorder, with power supply, and extension cord, plus audio cable and a 60 minute cassette tape of reasonable quality.

The library tape committee already have the second and third issues of library tapes under development. These tapes alone make the annual club membership dues a bargain!
The library committee welcomes continual contributions of programs.

Thanks ERIC! We missed you!

by Eric Yruegas

Hello sports fans! It's been a LOOONG time since you've seen this column, and I wrote this one as an apology to those readers that have tried my previous programs and found that some of them (PIVOT, in particular) haven't worked that well or not at all. Another reason is to say Happy New Year! Hope all of you had a good holiday season.

Back to PIVOT. I just recently looked at it again, because I promised one of your members that I would correct the problems and get it back to him to re-print. Well, sorry Tom. I FINALLY got it fixed, and it works!

The program will turn your character set in the 2068 sideways. If you have the 2040 printer, this program can be used to print spreadsheets sideways (allowing WIDE columns!). Someone might want to write a utility to print word-processor files sideways. You could have a margin of any number! Just tape the strips together and you have a letter.

Well, here is the program, in it's entirety:

```
2 REM TO GET CHAR. SET, TYPE POKE 23606,244:POKE 23607,250
7 DIM A$(8,8): DIM B$(8,8)
10 LET C=PEEK 23606+256*PEEK 23607+256
12 FOR J=33 TO 128
20 FOR P=0 TO 7
25 LET BYTE=PEEK (C+P+(J-32)*8)
27 LET Z$="        ":REM 8 SPACES
35 FOR L=1 TO 8
40 LET X=INT (BYTE/2):LET BIT=BYTE-2*X:LET BYTE=X:LET
Z$(LEN Z$-L+1)=STR$(BIT)
50 NEXT L:LET A$(P+1)=Z$:NEXT P
70 FOR F=1 TO 8:FOR N=1 TO 8:LET B$(N,F)=A$(9-F,N):NEXT
N:NEXT F
80 FOR P=0 TO 7
85 LET Z$=B$(P+1)
90 LET B=128*(Z$(1)="1")+64*(Z$(2)="1")+32*(Z$(3)="1")+
16*(Z$(4)="1")+8*(Z$(5)="1")+4*(Z$(6)="1")+2*(Z$(7)="1")+
(Z$(8)="1")
100 POKE (64500+P+(J-32)*8),B
170 NEXT P:NEXT J
```

There it is. And it works. This program is not all that fast. But guess what! I have a MACHINE CODE replacement for the above program! Actually, I cheated and used TIMACHINE on it, and it now breezes through the character set in about 1/3 the time. However, the machine code is exactly 1K (1024 bytes!), and is kind of long to print here. If you like, send me a request for the code on tape or disc (AERCO DS/DD only, please!), and I can zip it out to you. I also can make the disassembly available. Just ask!

Well, I'm about of paper, so I end this here. Have fun with it!

Eric Yruegas
4706 Langley Ave.
Whitehall, OH 43213-3124

January Editorial

Well T/S fans, here it is, a whole new year!!! Let me take a moment to wish you all a very HAPPY NEW YEAR!! For so called dead computers, I think we have done rather well! I hope we will do as well this year. Big things will happen this year! In May, there will be another T/S computer fest, this time in Indiana. It promises to be a GOOD one.

I have heard a few rumors that Zebra Systems may pull out of T/S. I hope this is not true! I sent them a letter but I have not received an answer as of yet. I sent them my old OS-64 cartridge for a 1.72 so that it would work with my Oliger Disk. I got it back in only a week. This is very good response.

John Oliger now has a version 2.13 or maybe 2.14 of his new DOS. It now allows you to save and load to disk the same as you do from cassete! To elaborate a bit, I can take any program, code, screen, data, data$, or variables and save them to disk the same as cassette simply by adding a "/" after the keyword. The disk is broken into 5K blocks. Each block is one track. You can save clear down to 1 byte from memory but you will use at least one track. It is a bit wasteful but it is also the FASTEST disk available for the 2068. With disks costing as little as they do, I am VERY happy with it myself!! The new DOS also has a CATalog now. It also has the printer driver software still there.

I have been on Cleveland Free Net quite a bit lately. Now that the system has got the time lag out of it, the system is much more enjoyable to use. If you have an ID number, but haven't signed up for our SIG yet, it is very easy to do. Just sign on, go to PUBLIC SQUARE, select the computer SIG section, then select the Timex/Sinclair SIG, then press the "?" key to sign up! If you want a list of those who have done so just press the 6 key. Use caution and hit the 7 key only ONCE! If you hit it again, you will be listed twice.

Sometime in the future we are hoping to get a condenced version of the RAMTOP on the SIG. If you have an article and can upload it, you can get it to me directly or by sending me the article as EMAIL. My number is ab722.

I have the sorry job of having to report that we have had poor responce to our library tapes that have been mailed. Dean Miller called and told me that NONE have come back yet! He mailed them quite a while ago. From now on we will mail directly to a member who fills out the form on the inside back cover. The prices listed on the form are our costs only and NOT profit! Our library staff has put MANY hours on compiling this tape! I am told that they have picked from hundreds of programs! If you want to donate a program (anything not copyrighted) you may send it on tape, writted, or on Oliger disk (version 2.00 & up 5 1/4 DSDD or DSQD) to: DEAN MILLER phone: 216-944-8630 29324 Park St. Nickliffe, Ohio, 44092

You will see on the form that you have two choices as to how you may get the tape. I strongly suggest #1. This way, you can send us some of your programs and we will send you over 50 programs in return at NO cost to you! (The $1.00 is for return postage)

I also would like to take a few lines to once again THANK all of you for the fine articles you have sent in the past! I hope you will find time to continue to send them as it is the only means of keeping our RAMTOP up to the high standards that we try to keep it at. My address is: James G. DuPuy Phone: 216-661-4105 6514 Bradley Ave. (Down) Parma, OH, 44129 *THANKS AGAIN!!!*

INTRODUCTION TO "ODE TO JOY"--- PROGRAM FOR TS 2068

By Joan Kealy

With permission from the author, Oleg Jefimenko, I have used "Musician Royal" and a model Music Box program from 30 MUSIC PROGRAMS FOR TIMEX SINCLAIR 2068, his book, to produce for you a musical program using the BEEP. The musical theme, an excerpt for Beethoven's Ninth Symphony, has become polular worldwide as "Ode to Joy."

What would be neat is if someone would produce the sort of bouncing ball singalong that used to be in movies years ago. The words should be printed in sync with each note as sung; there is an inspiring lyric by Ron Van Schiff I'll be glad to send anyone who would put the singalong on GCISUG's already fine library tape collection. Schiff's lyric is also available with sheetmusic.

"Musician Royal" turned out to be very easy to transfer to Zebra disk: MERGE to load to break into program; in immediate mode SAVE * "MUSROYAL"LINE 1. Do not run first to see ANYTHING because there are many internal DELETES that erase lines and whole modules to maximize space for music storage. I wish more people would advise how they transferred commercial programs to their particular disk systems. We do not all have NMI loads like Aerco and Oliger.

Thanks Joan!
For those of you who don't know who Joan Kealy is, she is one of our out of state members. She resides in the Lone Star State of Texas. She has a 2068 with the Zebra disk system and a Gorilla Banana printer (with the true decenders EPROM)

```
  1 REM TRANSCRIBED FROM MUSICA
L NOTATION TO TS2068 USING "MUSI
CIAN ROYAL"
  10 BORDER 4: PAPER 6: CLS : RE
AD N$,R
  20 LET FF=0: LET TT=10: LET B=
0: LET Z$=""
  30 PRINT PAPER 5;"**********N
OW PLAYING**********"
  40 PRINT AT 10,(31-LEN N$)/2;N
$
  50 PRINT PAPER 5;AT 21,0;"****
*******NOW PLAYING**********"
  60 PRINT PAPER 3; INK 7;AT 20,
0;"TO STOP, PRESS ""SHIFT""+""BR
EAK"""
  70 LET T=R+TT
  80 READ F,V: ON ERR GO TO 120
  90 IF F<>99 THEN GO TO 110
 100 PAUSE T/V*60: GO TO 80
 110 BEEP T/V,F+FF: GO TO 80
 120 ON ERR RESET
 130 RESTORE 2010: IF Z$="1" THE
N GO TO 80
 140 CLS : PRINT AT 7,0;"PRESS "
"1"" TO PLAY CONTINUOUSLY"
 150 PRINT '"PRESS ""2"" TO PLAY
 DIFFERENTLY"
 160 PRINT '"PRESS ""S"" TO STOP
"
 170 PAUSE 0: LET Z$=INKEY$
 180 IF Z$="1" THEN CLS : GO TO
30
 190 IF Z$="2" THEN GO TO 210
 200 STOP
 210 CLS : PRINT AT 4,0;"YOU CAN
 PLAY THIS COMPOSITION"
 220 PRINT "AT A DIFFERENT TEMPO
. THE"
 230 PRINT "ORIGINAL TEMPO IS 10
. INPUT 10"
 240 PRINT "TO RETAIN THE ORIGIN
AL TEMPO."
 250 PRINT "INPUT A LARGER NUMBE
R FOR A"
 260 PRINT "SLOWER TEMPO  INPUT
 A SMALLER"
 270 PRINT "NUMBER FOR A FASTER
TEMPO"
 280 INPUT TT
 290 CLS : PRINT AT 4,0;"YOU CAN
 CHANGE THE TONALITY"
 300 PRINT "OF THE COMPOSITION.
 INPUT 0 TO"
 310 PRINT "RETAIN THE ORIGINAL
TONALITY."
 320 PRINT "INPUT A POSITIVE NUM
BER TO MAKE THE TONALITY HIGHER"

 340 PRINT "OR A NEGATIVE NUMBER
 TO MAKE IT"
 350 PRINT "LOWER.  EACH UNIT C
HANGES THE"
 360 PRINT "TONALITY BY ONE SEMI
-TONE."
 370 INPUT FF: CLS : GO TO 30
 380 SAVE "ODETOJOY" LINE 10
2000 DATA "ODE TO JOY",.15
2010 DATA 5,4,5,4,6,4,8,4,8,4,6,
4,5,4,3,4,1,4,1,4,3,4,5,4,5,2.67
,3,8,3,2,5,4,5,4,6,4,8,4
2020 DATA 8,4,6,4,5,4,3,4,1,4,1,
4,3,4,5,4,3,2.67,1,8,1,2,3,4,3,4
,5,4,1,4,3,4,5,16,6,16,5,4
2030 DATA 1,4,3,4,5,16,6,16,5,4,
3,4,1,4,3,4,-4,4,5,2,5,4,6,4,8,4
,8,4,6,4,5,4,6,6,3,8,1,4
2040 DATA 1,4,3,4,5,4,3,2.67,1,8
,1,2,3,4,3,4,5,4,1,4,3,4,5,8,6,8
,5,4,1,4,3,4,5,6,6,8,5,4
2050 DATA 3,4,1,4,3,4,-4,4,5,2,5
,4,6,4,8,4,8,4,6,4,5,4,6,8,3,8,1
,4,1,4,3,4,5,4,3,2.67,1,8
2060 DATA 1,2,1,2
```

```
   1 REM This is a loader program for the NEW OLIGER DOS VER.2.Ø AND UP.
   2 REM WRITTEN BY LEWIS, SIMON, AND KNYSZEK ..
   3 REM This is a no frill MAX file space PROGRAM useing minnimum bytes, less
then 13ØØ is available.
   4 REM GOTO 50 two times to initiate program. 999 to clear file and then 555
to name file.
   5 REM DO NOT use lines 1 to 5. THANKS. If you have any questions call
Ted Knyszek 216-843-6553.
   6 REM
   7 REM
   8 REM
   9 REM
  1Ø LET /P=O/G: POKE 23324,1Ø: POKE 23658,8
  2Ø PAPER 5: BORDER 1: CLS : PRINT AT Ø,(16-LEN X$/2);X$,,,
  3Ø FOR N=1 TO 4Ø: IF N<=2Ø THEN PRINT N;")";N$(N,2 TO ): NEXT N
  4Ø PRINT AT N-19,16;N;")";N$(N,2 TO ): NEXT N
  5Ø INPUT AT Ø,Ø;"INPUT FILE NO? OR 111-NEW FILE  555-NAME DISK 999-CLEAR FILE"
;D
  6Ø IF D=111 THEN GO TO 11Ø
  7Ø IF D=555 THEN INPUT "DISK NAME-";X$: SAVE /Ø: GO TO 1Ø
  8Ø IF D=999 THEN DIM N$(4Ø,11): GO TO 1Ø
  9Ø IF D<1 OR D>4Ø THEN GO TO 5Ø
 1ØØ LET L$=N$(D,2 TO ): GO TO VAL N$(D,1)+2ØØ
 11Ø INPUT "NEW FILE NO. ? ";N
 12Ø CLS : PRINT "1=BASIC 2=CODE 3=SCREEN$ 4=ABS"
 13Ø INPUT "INPUT FILE TYPE (1-4)&FILE NAME (MAX-1Ø)? ";K$
 14Ø LET N$(N)=K$: SAVE /Ø: GO TO 1Ø
 2Ø1 LOAD /L$: STOP
 2Ø2 LOAD /L$CODE : STOP
 2Ø3 LOAD /L$SCREEN$ : STOP
 2Ø4 LOAD /L$ABS
```

Thanks to Jim Lewis, Tom Simon, and Ted Knyszek for this GREAT loader program for the OLIGER vesion 2 DOS. You can have it load another loader like this one for more programs.

THIS IS THE WORLD'S FASTEST VIDEO GAME.
ARE THERE ANY CHALLENGERS OUT THERE?

by Theo Turk
Nov. 24, 1986

FOR TS1000, 1500

```
1  REM (followed by 85 X's)
2  Let A=16514
3  Let A$="181D382C25322F37002A3336003430253D2D322B11FFFF06
       2519D010FE18F82A0C401173011 9EBD52184400112 00EDB0
           21E803CD9640D12184400E127EA72803C68112D5E521960 0
       CD9640E1D113230D20EAC9"
4  POKE A,16*CODE A$+CODE A$(2)-476
5  Let A=A+1
6  Let A$=A$(3 TO)
7  If A$<>"" THEN GOTO 4
8  Stop
```

Thanks THEO for another fine 1000 article!!

RUN 1, DELETE Lines 2 thru 8, then ADD lines 10 and 20.

```
10 RAND USR 16514
20 STOP
```

FREE AD:
How will TAX REFORM affect you? Program (2068 tape) now incorporates final changes in the law. Includes itemizing, but is not for businesses. Input your last year's figures for comparison or anticipate future income. members may copy program FREE at meetings. Nonmembers send $5.00 to Max Schoenfeld, 2612 Princeton Rd., Cleveland Ht., OH, 44118, for PPD tape recorded on two seperate machines.

__QoLumn__

by Gabe Schaffer

Hello. This month's QoLumn has the solution to the Cards Game, a few tips, and a program. But first, if you have any comments, please write to:

Gabe Schaffer
2599 Saybrook Rd.
Univ. Hts., OH 44118

SOLUTION

If you add together the first number of each card on which the secret number appears, you will have the identity of the secret number. (e.g A number only on cards E, F, and S, would have to be 28; 8 + 4 + 16 = 28.) You also may have noticed that the first numbers of the cards are powers of 2 (1 or 2^0, 2 or 2^1, 4 or 2^2, 8 or 2^3, and 16 or 2^4).

Because there was no error checking, the program allowed you to think of a number lower than 1 or greater than 31, but everything else was accurate.

TIPS

To print out free memory, type

```
PRINT PEEK_L (163856)-PEEK_L (163852)
```

NOTE: On rare occasions, the system variables move around, making the above statement inaccurate

X X X X X

CALL 0 and NEW don't act like PRINT USR 0 and NEW on the 2068, but to re-initialize the system as though it were just plugged in, type

```
a=RESPR(512):POKE_W a,20032:POKE_W a+2,20080:CALL a
```

X X X X X

If you want to hear a good example of the QL's sound, type

```
BEEP 0,255,16384,12,0,5
```

If you want to stop the previous sound, type

```
BEEP
```

PROGRAM

Here is an updated version of QLDRAW (it's faster and has a bigger drawing screen), but it uses the same instructions. It can be used for both T.V and MONITOR mode, but you don't get to see the whole drawing screen in T.V. mode.

```
1 REMark 480 pixels across
100 init
110 WHEN y<0
120 y=0
130 END WHEN
140 WHEN y>160-cb
150 y=160-cb
160 END WHEN
170 WHEN x<0
180 x=0
190 END WHEN
200 WHEN x>478-cb
210 x=478-cb
220 END WHEN
230 x=x:y=y:OVER -1:BLOCK cb,cb,x,y,255:x2=x:y2=y:k=KEYROW(1
)
240 IF k&&4 THEN y=y-de:ELSE IF k&&128 THEN y=y+de
250 IF k&&16 THEN x=x+de:ELSE IF k&&2 THEN x=x-de
260 BLOCK cb,cb,x2,y2,255:OVER 0:IF k&&64 THEN BLOCK cb,cb,x
,y,1
270 CURSOR#0,144,20:PRINT #0,"X ="!x,,"Y ="!y,:IF k&&8 THEN
 GO TO 290
280 GO TO 230
290 menu
300 oi=CODE(INKEY$):IF oi>48 AND oi<55 THEN ON oi-48 GO SUB
310,320,330,340,350,360:menu:GO TO 300:ELSE GO TO 300
310 CLS #0:INPUT #0,"What color do you want the brush to be?
 (0 to 255) "!!i:IF i<>INT(i) OR i<0 OR i>255 THEN GO TO 310
:ELSE BORDER 1,(i+4) MOD 256:BORDER#2,1,(i+4) MOD 256:RETurn

320 CLS#0:INPUT #0,"What size brush do you want? (1 to 8) "!
!cb:IF cb<>INT(cb) OR cb<1 OR cb>8 THEN GO TO 320:ELSE RETur
n
330 CLS #0:INPUT #0,"What brush density do you want? (1 to 8
) "!!de:IF de<>INT(de) OR de<1 OR de>8 THEN GO TO 330:ELSE R
ETurn
340 clear_screen:RETurn
350 CLS#0:esc:GO TO 230
360 quit:RETurn
370 DEFine PROCedure menu:CLS#0:PRINT #0,"1 = Change brush c
olor (";i;")"\"2 = Change brush size  (";cb;")"\"3 = Change
density     (";de;")":AT #0,0,34:PRINT #0,"4 = Clear screen"
:AT #0,1,34:PRINT #0,"5 = Exit menu":AT #0,2,34:PRINT #0,"6
= Quit program":END DEFine
380 DEFine FuNction dc:LOCal ed:IF de>=cb THEN ed=de:ELSE ed
=cb+de
390 RETurn ed:END DEFine
400 DEFine PROCedure init:x=0:y=0:cb=2:i=0:de=1:boot:esc:END
 DEFine
```

Please see page 8 for the last 7 lines of the program.

THE FOLLOWING FORM IS FOR THOSE WHO ARE INTERESTED IN RECEIVING A LIBRARY TAPE. YOU MUST FILL THIS OUT AND RETURN IT IF YOU WANT A TAPE MAILED TO YOU! This form is for those of you that DON'T attend the meetings. There are 2 ways to get a copy of the programs in our library: 1- Send a C-90 with your return address and $1.00 (P&H) or 2- We will send you a tape that you can keep for $3.00. (Make checks payable to The RAMTOP)

Thank You for your support of our group!

```
*****************************************************************
*                    * LIBRARY  TAPE  FORM *                    *
*                                                               *
* NAME ____________________________ PHONE ____-____-__________ *
*                                   phone # is REQUIRED!        *
* ADDRESS ________________________                              *
*                                                               *
* CITY ____________________________ STATE _______ ZIP _______ *
*                                                               *
*                                                               *
* TYPE OF COMPUTER YOU OWN: 1000/ZX-81 __ /1500 __ /2068 __     *
* check all that you have : QL __ OTHER ____________________    *
*                                                               *
* Do you have a DISK system: (type)____________________________ *
* Plese note that we request that the form be filled out as     *
* completely as possible.                                       *
*****************************************************************
```

Mail the form along with your check ($1.00 or $3.00) to:
Dean Miller (Librarian) + It would be appreciated if you
29324 Park St. + send us any noncopyrighted soft-
Wickliffe, OH, 44092 + ware!!! (Phone- 216-944-8630)

This page contains two forms. The one above is for the library tape. The one below is for subscription to the RAMTOP. Please read the instructions with the form before mailing it.

If you would like to subscribe to the RAMTOP please fill out this form and send it to the listed address along with a check for: $15/Year or $7.50/ 6 mo. to become a member of our Group (Attend meetings, use library tapes Ect.) or: $12/Year or $6/ 6 months to receive the RAMTOP only. Please make checks payable to the RAMTOP! (The phone # is only for our records!)

```
*****************************************************************
*Please print!  Enclosed: $__________ for 1 year__ / 6 months__*
*                                                               *
*NAME: ____________________________ PHONE:____-____-__________ *
*                                                               *
*STREET:____________________________                            *
*                                                               *
*CITY:____________________________ STATE:____________ ZIP:_____ *
*                                                               *
*Type of computer(s) and peripheral(s) you own:________________*
*                                                               *
*_____________________________________________________________*
*      THANK YOU for your interest!   Please send to:           *
*Robert Parish, 12706 Leeila Ave., Cleveland, OH 44135          *
*****************************************************************
```

CONTINUED FROM QoLumn.
Thanks for the fine article, GABE!

```
410 DEFine PROCedure esc:CLS #0:CSIZE #0,3,1:INK #0,4:AT  #0
,0,4:PRINT #0,"Press ESC for menu";:INK #0,7:CSIZE #0,0,0:EN
D DEFine
420 DEFine PROCedure boot:FOR f=1 TO 2:OPEN #f,con_482x162a1
6x0:PAPER #f,7:INK #f,0:BORDER #f,1,4:NEXT f:WINDOW#0,422,3:
,45,162:PAPER #0,0:INK #0,7:BORDER #0,2,2:MODE 4:END DEFine
430 DEFine PROCedure quit
440 CLS#0:INPUT#0,"Do you really want to quit this program?
(Y/N)";quit$:IF quit$ INSTR "y" THEN CLEAR:STOP:ELSE IF qui
$ INSTR "n" THEN END DEFine :ELSE GO TO 440
450 DEFine PROCedure clear_screen
460 CLS#0:INPUT#0,"Do you really want to clear the screen? (
Y/N)";clr$:IF clr$ INSTR "y" THEN x=0:y=0:CLS:GO TO 470:ELSE
  IF clr$ INSTR "n"THEN GO TO 470:ELSE GO TO 460
470 END DEFine
```

Here is a current list of those that are responsible for bringing you the RAMTOP and organizing our user group. I hope I have made no mistakes, so if I have, LET ME KNOW!

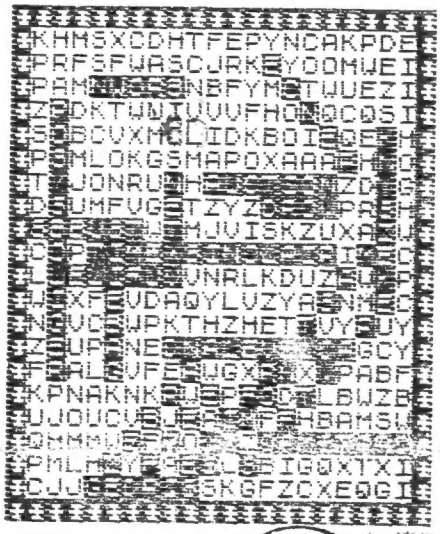
The RAMTOP staff:
Editor------ James G. DuPuy
Printer----- Al Gedris
News-------- Andy Kosiorek
Front cover- Ted Knyszek
QL Column--- Gabe Schaffer
Mailing----- Shirley DuPuy
Delivery---- Doug Gillespie
With many articles contributed by our members and many of the other fine T/S Publications.

The LIBRARY staff:
Tapes------- Dean Miller
Al Gedris

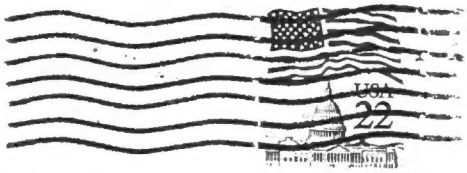
GCASUG Board of Directors:

Presedent:	Andy Kosiorek
Vice pres:	Gene Wilson (East)
Secretary:	Tom Simon
BBS (SYSOP):	Chris Raynak
Treasurer:	Robert Parish
Editor:	James G. DuPuy
Tape sales:	Tom Jennins
Library:	Dean Miller
Others:	Max Schoenfeld
	Dick Sieg
	Ted Knyszek
	John Velek

Here are the answers to the to the WORD SQUARE from last month. If you like having this in the RAMTOP, let me know and I will put one in every month. (space permiting)



LET ME TAKE A FEW LINES TO THANK AL GEDRIS FOR PRINTING THE RAMTOP/// WITHOUT HIS STEPPING IN WHEN HE DID, WE MAY HAVE BEEN ONE OF THOSE THAT DIDN'T MAKE IT! THANKS AGAIN, AL! WE ALL APPRICIATE YOUR SERVICES!



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87/05/16

FIRST CLASS MAIL